# 身份证信息识别

## Python升级 需>2.7

**下载**

# cd /mnt/

# wget https://www.python.org/ftp/python/2.7.12/Python-2.7.12.tgz --no-check-certificate

**解压**

# tar -xvf Python-2.7.12.tgz

**安装**

# cd Python-2.7.12

# ./configure --prefix=/usr/local/python2.7 指定安装路径

# make all

# make install

# make clean

# make distclean

**建立软连接**

# mv /usr/bin/python /usr/bin/python2.4.3

# ln -s /usr/local/bin/python2.7 /usr/bin/python

**安装完成后，验证**

使用 # python –V 查看Python版本

## Pip安装

**下载文件**

# wget https://bootstrap.pypa.io/get-pip.py --no-check-certificate

**执行安装**

# python get-pip.py

# vim ~/.bash\_profile

将里面的PATH改成 PATH=$PATH:$HOME/bin:/usr/local/python2.7/bin/

保存退出文件后

# source ~/.bash\_profile

## 安装依赖的leptonica库 需>1.6

# wget <http://www.leptonica.com/source/leptonica-1.72.tar.gz>

# tar -xvf leptonica-1.72.tar.gz

# cd leptonica-1.72

# ./configure && make && make install

## 安装tesseract 需>3.0

**所用版本 3.04，编译需要automake、libtool**

# yum install automake

# yum install libtool

**安装tesseract**

# wget https://github.com/tesseract-ocr/tesseract/archive/3.04.zip --no-check-certificate

# unzip 3.04

# cd tesseract-3.04/

# ./configure

# make && make install

# sudo ldconfig

**配置文件位置**

/usr/local/share/tessdata

**语言文件**

上传tessdata-lang.zip 到 /usr/local/share/tessdata/

# unzip tessdata-lang.zip

# rm tessdata-lang.zip

## 升级gcc 需>4.8

下载解压

# wget <http://ftp.gnu.org/gnu/gcc/gcc-4.8.2/gcc-4.8.2.tar.bz2>

# tar -jxvf gcc-4.8.2.tar.bz2

依赖项

# cd gcc-4.8.2

# ./contrib/download\_prerequisites

建立存放编译目录

# mkdir gcc-build-4.8.2

# cd gcc-build-4.8.2

生成Makefile文件

# ../configure -enable-checking=release -enable-languages=c,c++ -disable-multilib

编译

# make -j4

安装

# sudo make install

## 安装cmake

# cd /usr/local/src/

# wget <http://www.cmake.org/files/v3.1/cmake-3.1.3.tar.gz> --no-check-certificate

# tar -zxvf cmake-3.1.3.tar.gz

# cd cmake-3.1.3/

# ./configure

# make && make install

# cmake –version

# rm cmake-3.1.3.tar.gz # rm cmake-3.1.3.tar.gz

## 安装opencv

# pip install numpy

安装各种依赖包

# yum install gcc gcc-c++

# yum install cmake

# yum install gtk2-devel

# yum install libdc1394-devel

# yum install libv4l-devel

# yum install gstreamer-plugins-base-devel

下载opencv 并安装

# wget https://github.com/Itseez/opencv/archive/3.2.0.tar.gz --no-check-certificate

# tar -zxf opencv-3.2.0.tar.gz

# cd opencv-3.2.0

# mkdir build

# cmake -D CMAKE\_BUILD\_TYPE=RELEASE -D CMAKE\_INSTALL\_PREFIX=./build ../ opencv-3.2.0

# make –j4

# make install

验证

# python

>>> import cv.2

没有报错即为成功